

# SEQUENCE LISTING

<110> Kevin J. Kayser  
 John J. Kilbane, II

<120> System and Method for Gene Expression in Thermus Strains

<130> IGT-1444

<140>

<141>

<160> 5

<170> WordPerfect 9.0

<210> 1  
 <211> 48  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> terminator located either 3' or 5' to proximal end  
 of gene of interest

<400> 1  
 GGCCGGGGCC CCGCCCCTTT GGGCGGGGCC TCCCCCAAG GAGGGCCG 48

<210> 2  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> 5' UTR added to five prime of transcript

<400> 2  
 GCATGCTTAT CTCGAGACTG GCAGTTCAAT AGAGATATTG TATGCCTGCA G 51

<210> 3  
 <211> 7  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> RBS addition to expression vector

<400>  
 AAAGGGA 7

<210> 4  
 <211> 8  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> RBS addition to expression vector

<400>

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<220>  
<223> Inducible promoter mdh

<400>							
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ACCCGCGTCC	TGGTCCAGGG	CATCACCGGC	CGGGAGGGGC	AGTTCCACAC	CAAGCAGATG		180
CTGGACTACG	GCACCAAGAT	CGTCGCCGGG	GTCACCCCGG	GCAAAGGGGG	AACGGAGGTC		240
CTAGGGGTCC	CCGTCTACGA	CACGGTGAAG	GAGGCGGTGG	CGCACCACGA	GGTGGACGCC		300
TCCATCATCT	TCGTGCCCCG	CCCGGCCGCG	GCGGACGCCG	CCCTGGAAGC	GGCCCACGCC		360
GGGATCCCCC	TCATCGTCCT	CATCACCGAG	GGCATCCCCA	CCCTGGACAT	GGTGCGGGCG		420
GTGGAGGAGA	TCAAGGCCCT	GGGAAGCCGC	CTCATCGGGG	GGAACTGCCC	GGGGATCATC		480
AGCGCCGAGG	AGACCAAGAT	CGGGATCATG	CCCGGCCACG	TCTTCAAGCG	GGGCCGGGTG		540
GGGATCATCA	GCCGCTCCGG	CACCCTCACC	TACGAGGCCG	CAGCCGCCCT	TTCCCAGGCG		600
GGGCTCGGCA	CCACCACCAC	GGTGGGGATC	GGGGGCGACC	CCGTCATCGG	CACCACCTTC		660
AAGGACCTCC	TCCCCCTCTT	CAACGAGGAC	CCGGAGACGG	AGGCCGTGGT	CCTCATCGGG		720
GAGATCGGCG	GCTCCGACGA	GGAGGAGGCG	GCGGCTTGGG	TGAAGGACCA	CA		772